Strawberry Shelf Life Test Results Utilizing FRE-FLO™ Water Technology

The test was a side-by-side comparison of strawberries grown in the same field in Oxnard, California. One of the strawberry beds had a FRE-FLO™ Model 150-100 installed (which has a water flow rate of 4.3 to 7.5 GPM). All other parameters remained the same for the control and FRE-FLO™ areas. Please see next slide of actual photo of test area. Note the open areas with the plastic showing through on the control (non-FRE-FLO) area. Then you can easily see the much healthier, denser plant canopy coverage in the area receiving FRE-FLO™ treated water.

As the photos show, the non-treated control strawberries had a shelf life of 4 days (starting to mold on day 5). The FRE-FLO™ strawberries had more than ***double*** the shelf life of the controls, staying in edible condition until day 10 (with mold not starting until day 11).

Strawberry Shelf Life Test Results

FRE-FLO™ Installed August 25, 2009
Photo Taken Only 45 Days Later

Strawberry Shelf Life Test Results

Day 1 Control

Day 1 FRE-FLO™ Test

Strawberry Shelf Life Test Results

Day 2 Control

Day 2 FRE-FLO™ Test

Strawberry Shelf Life Test Results

Day 3 Control

Day 3 FRE-FLO™ Test

Strawberry Shelf Life Test Results

Day 4 Control

Day 4 FRE-FLO™ Test

Strawberry Shelf Life Test Results

Day 5 Control

Day 5 FRE-FLO™ Test

Strawberry Shelf Life Test Results

Day 6 Control

Day 6 FRE-FLO™ Test

Strawberry Shelf Life Test Results

Day 7 Control

Day 7 FRE-FLO™ Test

Note the liquid in the bottom of the tray. This did not happen with the FRE-FLO™ berries.

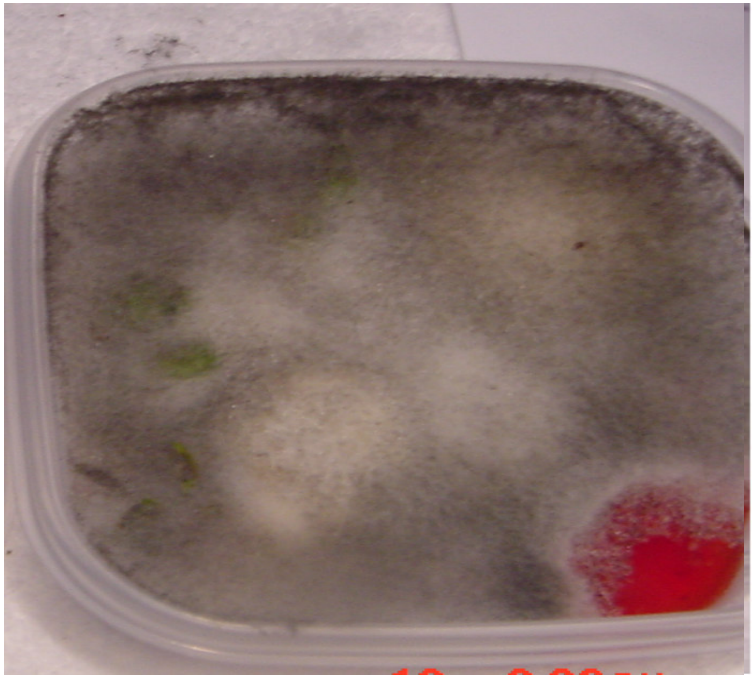
Strawberry Shelf Life Test Results

Day 8 no photos taken

- From this point forward only pictures of the FRE-FLO™ test berries will be shown unless otherwise labeled.

Day 9 FRE-FLO™ Test

Strawberry Shelf Life Test Results



Control

FRE-FLO™ Test

Day 10

The control berries have liquefied. The cell structure has broken down.
By contrast, the FRE-FLO™ berries are still edible on day 10.

Strawberry Shelf Life Test Results

Day 11 FRE-FLO™ Test

Even though the one berry has started growing mold, the cell structure integrity has not been compromised and the strawberries are still intact.

Strawberry Shelf Life Test Results

Day 13 FRE-FLO™ Test

Skipped a day of photography, as very little change took place.

Strawberry Shelf Life Test Results

Day 16 FRE-FLO™ Test

Skipped 3 days of photography, since berries were not weeping and were not liquefying as the control berries did.

Strawberry Shelf Life Test Results

Day 20 FRE-FLO™ Test

Close-up to show that the FRE-FLO™ grown strawberries have maintained their cell integrity even after 20 days of shelf life.

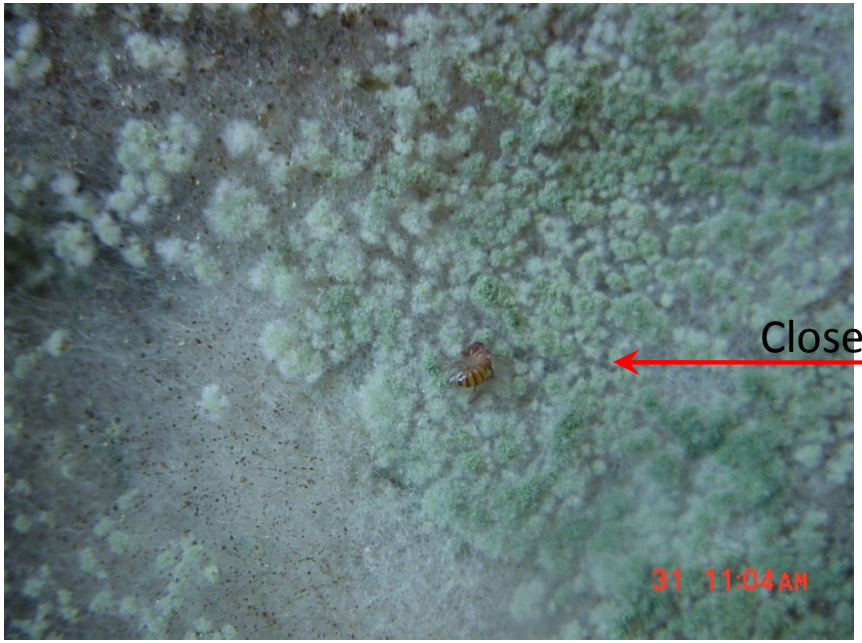
Strawberry Shelf Life Test Results

Day 22 FRE-FLO™ Test

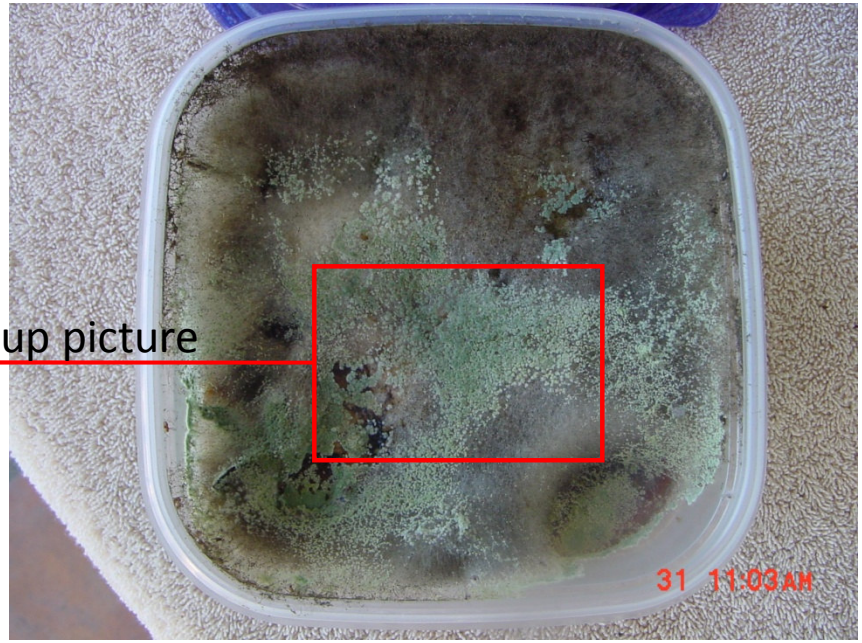
Final day. What is most interesting is the integrity of the berries. The cell walls have not broken down as the non-FRE-FLO treated berries did and the mold is very different.

Final Day 22 of the Control Berries

Note a dead fly in the center of the photo. Since the container had been closed, it is unknown where the larva came from.



There are several types of biological activity going on in this picture of the control berries.



Strawberry Shelf Life Test Results

Brix Readings

11-18-09

west side	HIGH Brix	Average of 6 berries
Control	10	7.5
FRE-FLO	11.5	9.0
EAST SIDE		
CONTROL	11.2	9.75
FRE-FLO	13.4	10.25

Bill Galli
CPS Professional Products
559-287-3980

Strawberry Shelf Life Test Results

Tissue Analysis

Results approved by:_____

Date:_____

BRANCH NAME: VISALIA

TEST ID #: 1254

CROP: STRAWBERRIES

GROWER/CLIENT:

STRAWBERRY TRIAL

PRECISION AGRI LAB

24730 Avenue 13
Madera, CA 93637
Phone: 559-661-6386
FAX: 559-661-6135

LOG IN #: 2911267

DATE SAMPLED: 11/9/2009

DATE SUBMITTED: 11/12/2009

DATE REPORTED: 11/19/2009

FIELDMAN:

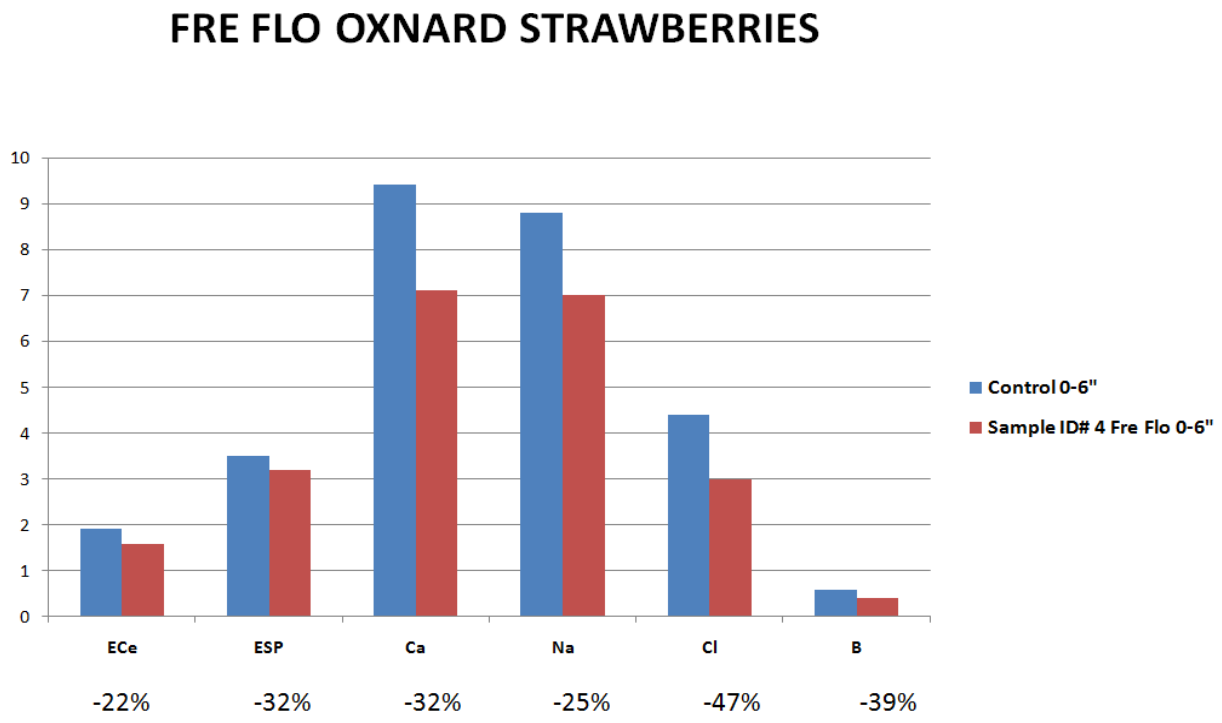
BILL GALLI

REPORT OF LEAF ANALYSIS

		Methods	P-2.10	P-4.20 Nitric Acid/Hydrogen Peroxide						P-4.20 Nitric Acid/Hydrogen Peroxide					P-3.10		
			nutrients reported in percent(%)							nutrients reported in parts per million(ppm)							
SAMPLE #:	DESCRIPTION:		%N:	%P:	%K:	%S:	%Ca:	%Mg:	%Na:	%Cl:	B:	Zn:	Mn:	Fe:	Cu:	NO3-N	PO4-P:	Mo
1	FRE - FLO		1.47	0.33	2.28	0.12	0.19	0.17	0.02	0.10	21	14	37	51	5			
2	CONTROL		1.30	0.29	2.14	0.10	0.13	0.14	0.01	0.07	18	12	33	41	3			

Strawberry Shelf Life Test Results

Soil Analysis



Strawberry Shelf Life Test Results

To summarize, the strawberries grown with FRE-FLO™ had a shelf life more than ***double*** the control strawberries, giving impactful economic advantages for the FRE-FLO™ berries.